























HUBBLE'S UNIVERSE

THE GALAXIES

The Space Telescope is named after **Edwin Hubble**, the American astronomer who in the 1930s discovered the expansion of the universe. A prime mission of the Space Telescope is to extend Hubble's pioneering work by looking deeper into space and farther back into time than any other telescope. The goal is to learn where the universe began and how it evolved in its first few billion years.

Looking Deep

Almost every object in this Hubble image is a galaxy, a collection of billions of stars like our Milky Way Galaxy. For the first time in December, 1995, Hubble's sharp vision revealed individual stars and galaxies in the spiral arms of the galaxy M100 in the handle of the Big Dipper. What they saw were thousands of galaxies, some as far away as 15 billion light years, near the edge of the observable universe. Because their light has taken billions of years to reach us, we see these galaxies as they appeared billions of years ago, soon after the beginning of the universe when the galaxies had just formed.

Spiral of Stars

If we could fly far from our Galaxy and look back on it, it might resemble what you see in this image. This galaxy, called M100, is about 17 million light years away. Hubble's sharp vision reveals individual stars and galaxies in the spiral arms of M100. By measuring the changes in brightness of a special class of stars called Cepheid variables, astronomers can gauge the distance to nearby galaxies. In this image, M100 is a member of the Virgo and Coma clusters of galaxies. Early astronomers, using smaller telescopes, noticed that the universe appeared smaller and younger billions of years ago.

Black Holes

Hubble has peered into the hearts of galaxies and found the best evidence yet for black holes. A jet of gas thousands of light years long shoots from the core of the giant elliptical galaxy M87. Hubble has shown that M87's core contains the mass of 5 billion suns packed into a volume the size of our solar system. In the center of another galaxy, NGC 4051, Hubble reveals a swirling compact disk of material with 1.2 billion solar masses. Such a much smaller and denser object suggests a black hole must form. Perhaps most galaxies harbor central black holes.

Colliding Galaxies

When galaxies collide, strange shapes arise. The Coma Cluster of galaxies has been torn apart when one of the smaller galaxies, like a stone dropped into a pond, a giant gravitational ripple ripples through the Coma Cluster, turning a normal spiral galaxy into a ring-shaped galaxy. The galaxies may be torn apart, but the spiral arms begin to reform.

Gravity at Work

Hubble has shown the universe is a vast, expanding space. The galaxies are moving away from each other, and the space between them is stretching. This is evidence for the Big Bang theory, which suggests that the universe began with a massive explosion and has been expanding ever since.



**"WARISAN SAINS & SENI
UNTUK PEMBANGUNAN LESTARI"**
"Heritage of the Arts & Sciences for a
Sustainable Development"

SILA KE
VISIT

**MUZIUM & GALERI
USM**

DEMI BAKA FOR THE NAME OF TIME

Time itself is a concept that has fascinated humanity for centuries. It is a thread that weaves through the fabric of our lives, connecting the past, the present, and the future. In this exhibition, we explore the many faces of time, from the ancient to the modern, and the ways in which it has shaped our world.

Time is a river that flows through the heart of our existence. It is a force that is both gentle and powerful, both fleeting and enduring. It is a mystery that has inspired artists, scientists, and philosophers alike. In this exhibition, we invite you to join us on a journey through time, to discover the secrets it holds and the wonders it has created.

**MUZIUM & GALERI
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FABRIK BAKA & TIKANG BAKA

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**MUZIUM & GALERI
USM**

TITIAN KREATIF

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MUSEUM & ART GALLERY USM

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Neptune

The storm (the white arrowhead-shaped feature) was created when a large bubble of warm air rose from deep in Saturn's atmosphere, then cooled into high clouds of white ammonia crystals. Like thunderstorms on Earth, storms seem to erupt every summer on Saturn.

—but a year on Saturn is 29.4 Earth years long. Hubble also shows the spectacular rings: the outer A Ring (with its thin Kassi Gap), the dark Cassini Division, the wide, middle B Ring, and a faint, inner C Ring.

SATURN

Distance from Sun	1.4 billion km
Diameter	120,540 km
Temperature	-180° C (top of clouds)
Gravity	1.06 x Earth's

Jupiter

Also in 1994 the largest planet in the solar system received multiple "black eyes" in a once-a-millennium event. During a memorable week in July, 21 pieces of Comet Shoemaker-Levy 9 plunged into Jupiter's atmosphere, each exploding, then raining hot, dark sulfurous debris onto the tops of Jupiter's cold clouds. Even backyard astronomers using small telescopes could see the spots, but Hubble saw them best. In this image, the largest of the dark impact scars is the size of Earth. Also visible is Jupiter's famous Great Red Spot, a swirling storm that has been raging for 300 years or more.

JUPITER

Distance from Sun	778 million km
Diameter	142,980 km
Temperature	-110° C (top of clouds)
Gravity	2.53 x Earth's

Uranus

The smallest planet in the solar system

warmer, than it has been for 240 years. Appearing as only a faint star, Hubble is able to map clouds but baring markings on the icy world two times. What are they? Perhaps areas of frost that change with the seasons. Summer, seas made of frozen methane, nitrogen, and carbon dioxide may turn temporary atmospheres. Only Hubble can track changes in Pluto's surface on this cold world and Pluto recedes from the Sun.

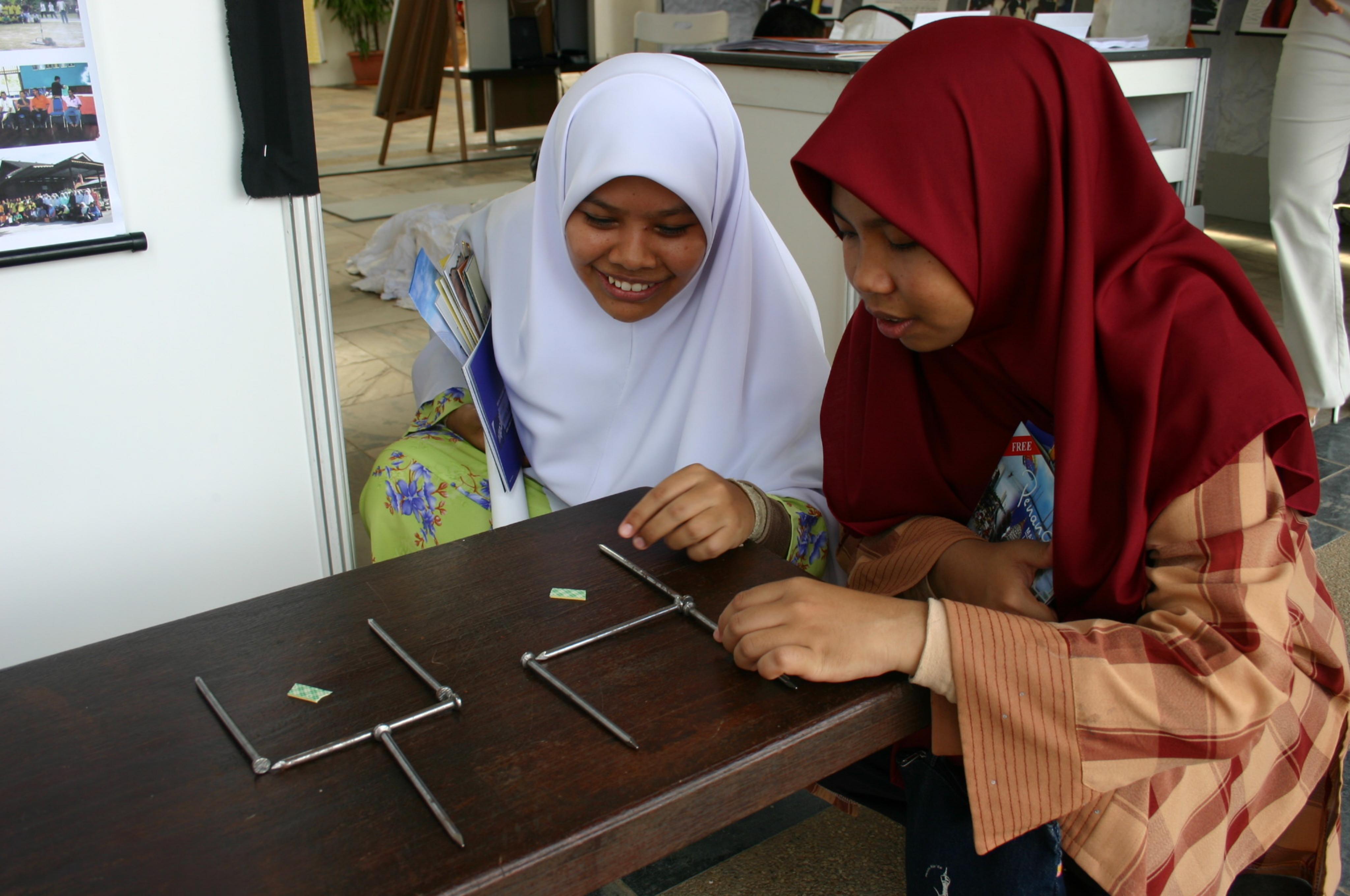
URANUS

Distance from Sun	2.9 billion km
Diameter	51,120 km
Temperature	-215° C (top of clouds)
Gravity	0.90 x Earth's

NEPTUNE

Distance from Sun	4.5 billion km
Diameter	49,530 km
Temperature	-215° C (top of clouds)
Gravity	1.14 x Earth's





MUZIUM GEOLOGI



JABATAN MINERAL DAN GEOSAINS MALAYSIA









MUZIUM NEGERI KEDAH



Selamat Datang

JIKEY

Selamat Datang











STADIUM LA

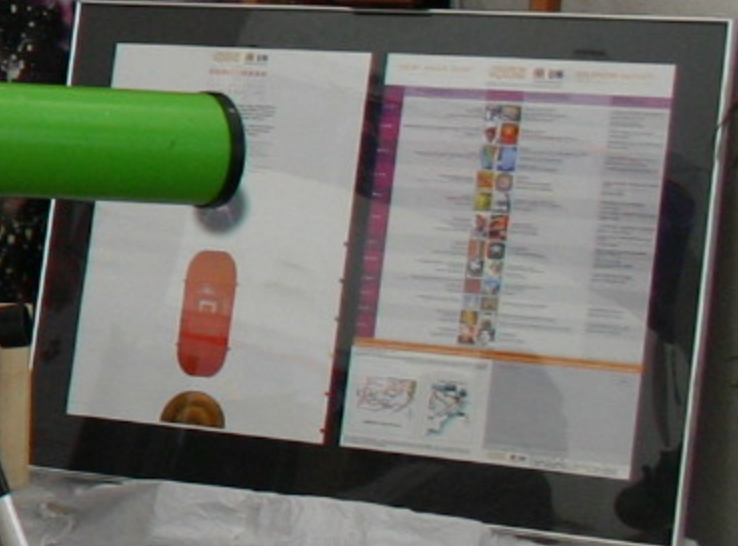
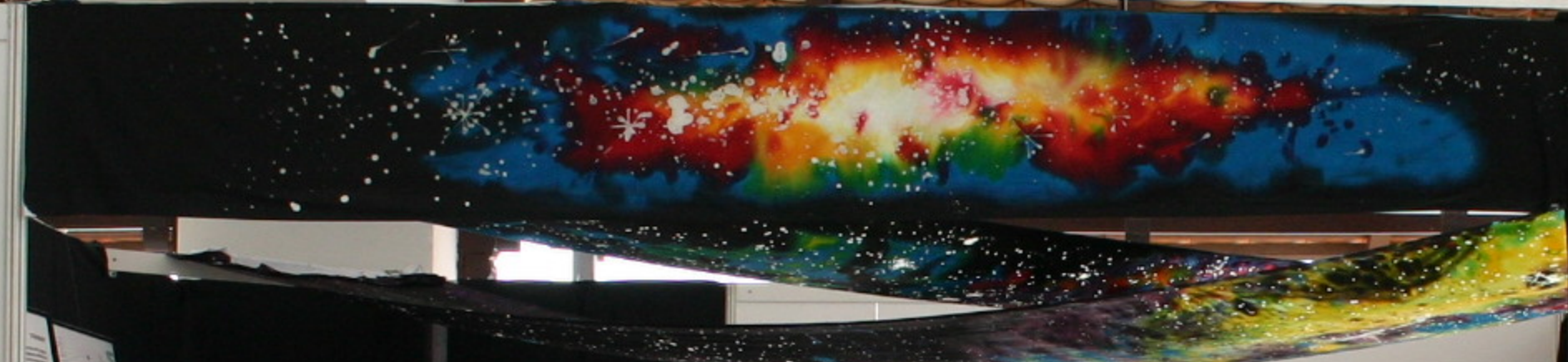
ZON UTARA



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The services provided by USM Museum & Art Gallery

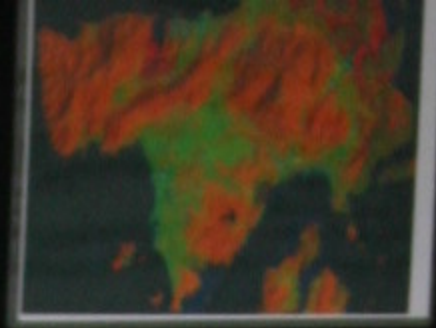
1. Support of curatorial work, essay writing and publication, organizing, managing and installing exhibition
2. Support of research work especially on M&G's permanent collection
3. Rental of exhibition space, artworks, artifacts and museum equipment
4. Support of restoration and conservational work
5. Consultation on personal heritage collection
6. Consultation on arts & cultural projects

2. Providing a sustainable teaching & learning space for students from USM, other public & private universities, colleges and schools

3. Providing a space for research in various disciplines of science / technology and arts / culture

4. Planning and organising profile and beneficial programs for visitors and communities

...ology / Astronomy Gallery
...ology Gallery
...sains Minda dan FiziK / Physics & Brain Science Gallery
...Arkeologi / Archeology Gallery



Langit Langit dan perantara langit
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MAJLIS PERBANDARAN LANGKAWI
BANDARAYA PELANCONGAN

BERSIH DAN INDAH





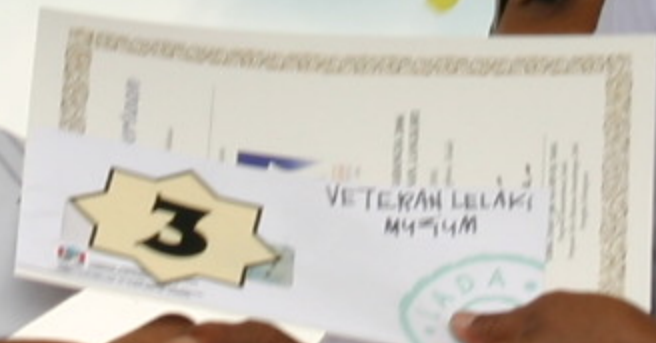












Majlis F
Hari M
Peri









Majlis Penutup
&
Penyampaian Hadiah
Hari Muzium Antarabangsa
Peringkat Kebangsaan
20 Mei 2006
Dataran Lang,
Langkawi











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